

SEQUENCE LISTING

<110> Sera, Takashi

5 <120> Zinc Finger Domain Recognition Code and Uses Thereof

<130> 109846-130

<150> US 60/220,060

10

<151> 2000-07-21

<160> 69

15 <170> PatentIn version 3.0

<210> 1

<211> 28

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20 <213> Artificial Sequence

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<223> Zinc finger domain.

25 <220>

<221> VARIANT

<222> (1)..(28)

<223> Amino acids 1-3, 8-19 and 25-28 are Xaa wherein Xaa = any amino acid.

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<220>

<221> VARIANT

<222> (5)..(6)

<223> Amino acid 5 is Xaa wherein Xaa = any amino acid, amino acids 5 and 6 together represent from 2 to 4 amino acids in length.

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<220>

<221> VARIANT

<222> (21)..(23)

<223> Amino acid 21 is Xaa wherein Xaa = any amino acid, amino acids 21-23 together represent from 3 to 5 amino acids in length.

<400>> 1

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Xaa Xaa Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa
10 20 25

<210> 2

<211> 28

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<212> PRT

<213> Artificial Sequence

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<223> Zinc finger domain.

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<220>

<221> VARIANT

<222> (1)..(28)

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<223> Amino acids 1-3, 8-12, 14, 17-18 and 25-28 are Xaa wherein Xaa = any amino acid.

<220>

<221> VARIANT

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<222> (5)..(6)

<223> Amino acid 5 is Xaa wherein Xaa = any amino acid, amino acids 5 and 6 together represent from 2 to 4 amino acids in length.

<220>

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<221> VARIANT

<222> (21)..(23)

<223> Amino acid 21 is Xaa wherein Xaa = any amino acid, amino acids 21-23 together represent from 3 to 5 amino acids in length.

<223> Zinc finger protein.

<400>> 3

5 Val Pro Ile Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly
1 5 10 15
Cys Gly Lys Val Tyr Gly Gln Ser Ser Asp Leu Gln Arg His Leu Arg
20 25 30
10 Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly
35 40 45
Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr His
15 50 55 60
Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met
65 70 75 80
20 Arg Ser Asp Glu Leu Ser Arg His Ile Lys Thr His Gln Asn Lys Lys
85 90 95
Asp Gly Gly Gly Ser Gly Lys Lys Lys Gln His Ile Cys His Ile Gln
100 105 110
25 Gly Cys Gly Lys Val Tyr Gly Thr Thr Ser Asn Leu Arg Arg His Leu
115 120 125
Arg Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys
30 130 135 140
Gly Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr
145 150 155 160
35 His Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe
165 170 175
Met Arg Ser Asp His Leu Ser Arg His Ile Lys Thr His Gln Asn Lys
180 185 190

Lys Gly Gly Ser

195

5

<210> 4

<211> 99

<212> PRT

<213> Artificial Sequence

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<220>

<223> Zinc finger protein.

<400> 4

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Val Pro Ile Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly

1

5

10

15

Cys Gly Lys Val Tyr Gly Thr Thr Ser Asn Leu Arg Arg His Leu Arg

20

20

25

30

Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly

35

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45

25

Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr His

50

55

60

Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met

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65

70

75

80

Arg Ser Asp His Leu Ser Arg His Ile Lys Thr His Gln Asn Lys Lys

85

90

95

35

Gly Gly Ser

<210> 5

<211> 99
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 <213> Artificial Sequence

5 <220>
 <223> Zinc finger protein.

<400> 5

10 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
 1 5 10 15

His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
 20 25 30

15 Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
 35 40 45

20 Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser His Leu Gln Gln His Gln
 50 55 60

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
 65 70 75 80

25 Ser Phe Ser Arg Ser Asp His Leu Ser Arg His Gln Arg Thr His Gln
 85 90 95

Asn Lys Lys

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<210> 6
 <211> 99
 <212> PRT

35 <213> Artificial Sequence

<220>
 <223> Zinc finger protein.

<400> 6

5 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
1 5 10 15

His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
20 25 30

10 Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
35 40 45

15 Glu Cys Gly Lys Ser Phe Ser Glu Ser Ser Asp Leu Gln Arg His Gln
50 55 60

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
65 70 75 80

20 Ser Phe Ser Arg Ser Asp His Leu Ser Arg His Gln Arg Thr His Gln
85 90 95

Asn Lys Lys

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<210> 7

<211> 99

<212> PRT

<213> Artificial Sequence

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<220>

<223> Zinc finger protein.

<400> 7

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Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
1 5 10 15

His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu

Asn Lys Lys

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<210> 10

<211> 99

<212> PRT

<213> Artificial Sequence

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<220>

<223> Zinc finger protein.

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Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln

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His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu

20

20

25

30

Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

35

40

45

25

Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asp Leu Gln Arg His Gln

50

55

60

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

65

70

75

80

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Ser Phe Ser Arg Ser Asp His Leu Ser Arg His Gln Arg Thr His Gln

85

90

95

Asn Lys Lys

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<210> 11

<211> 229

<212> PRT

<213> Human

<400> 11

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1 5 10 15

Gly Lys Ala Tyr Glu Asn Lys Arg Lys Thr Gly Arg Gln Arg Glu Lys
20 25 30

10 Trp Gly Met Thr Ile Arg Phe Asp Ser Ser Phe Ser Arg Leu Arg Arg
35 40 45

Ser Leu Asp Asp Lys Pro Tyr Lys Cys Thr Glu Cys Glu Lys Ser Phe
15 50 55 60

Ser Gln Ser Ser Thr Leu Phe Gln His Gln Lys Ile His Thr Gly Lys
65 70 75 80

20 Lys Ser His Lys Cys Ala Asp Cys Gly Lys Ser Phe Phe Gln Ser Ser
85 90 95

Asn Leu Ile Gln His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Lys
25 100 105 110

Cys Asp Glu Cys Gly Glu Ser Phe Lys Gln Ser Ser Asn Leu Ile Gln
115 120 125

30 His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys Asp Glu Cys
130 135 140

Gly Arg Cys Phe Ser Gln Ser Ser His Leu Ile Gln His Gln Arg Thr
145 150 155 160

35 His Thr Gly Glu Lys Pro Tyr Gln Cys Ser Glu Cys Gly Lys Cys Phe
165 170 175

Ser Gln Ser Ser His Leu Arg Gln His Met Lys Val His Lys Glu Glu

190

5

10

15

20

25

30

35

Gly Phe Ser Arg Ser Ser His Leu Ile Gln His Gln Arg Thr His Thr
100 105 110

0091361-073001
T0220-T0260

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	His	Lys	Cys	Thr	Glu	Cys	Ala	Lys	Ala	Ser	Ala	Ala	Ser	Pro	His	Leu	
	145					150					155					160	
10	Ile	Gln	His	Gln	Arg	Thr	His	Ser	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Glu	
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	Lys	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn	Glu	Cys	Trp	Arg	
	305				310					315					320		

Ser Phe Gly Glu Arg Ser Asp Leu Ile Lys His Gln Arg Thr His Thr
325 330 335

5 Gly Glu Lys Pro Tyr Glu Cys Val Gln Cys Gly Lys Gly Phe Thr Gln
340 345 350

Ser Ser Asn Leu Ile Thr His Gln Arg Val His Thr Gly Glu Lys Pro
355 360 365

10

Tyr Glu Cys Thr Glu Cys Asp Lys Ser Phe Ser Arg Ser Ser Ala Leu
370 375 380

Ile Lys His Lys Arg Val His Thr Asp
15 385 390

<210> 13

<211> 28

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<212> PRT

<213> Artificial Sequence

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<223> Zinc finger domain.

<220>

<221> VARIANT

<222> (13)..(13)

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<223> Amino acid 13 is Xaa wherein Xaa = Z-1 wherein Z-1 = Arg or Lys,
Gln or Asn, Thr, Met, Leu or Ile, or Glu or Asp.

<220>

<221> VARIANT

35

<222> (15)..(15)

<223> Amino acid 15 is Xaa wherein Xaa = Z2 wherein Z2 = Ser or Arg,
Asn or Gln, Thr, Val, or Ala, or Asp or Glu.

<220>

Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Asp Ser
1 5 10 15

Leu Gln Arg His Gln Arg Thr His Thr Gly Glu Lys
5 20 25

<210> 16

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Zinc finger domain.

<400> 16

Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn
1 5 10 15

Leu Gln Gln His Gln Arg Thr His Thr Gly Glu Lys
20 25

<210> 17

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Zinc finger domain.

<400> 17

Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Thr His
1 5 10 15

Leu Gln Gln His Gln Arg Thr His Thr Gly Glu Lys
20 25

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10			
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25	<211>	26	
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	<213>	Artificial Sequence	
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	<400>	25	
		tatatatagc gtgggcgtta tatata	26
35			
	<210>	26	
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	<212>	DNA	
	<213>	Artificial Sequence	

[illegible][illegible][illegible][illegible][illegible][illegible]

Questions are asked about the following:
1. The effect of the size of the sample on the accuracy of the results.
2. The effect of the number of trials on the accuracy of the results.
3. The effect of the number of subjects on the accuracy of the results.
4. The effect of the number of conditions on the accuracy of the results.

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

Questions are asked about the following:
1. The effect of the size of the sample on the accuracy of the results.
2. The effect of the number of trials on the accuracy of the results.
3. The effect of the number of subjects on the accuracy of the results.
4. The effect of the number of conditions on the accuracy of the results.

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<400> 29

tatatataag taagg tacta tatata

26

5

<210> 30

<211> 84

<212> PRT

10 <213> Artificial Sequence

<220>

<223> Zinc finger protein.

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<220>

<221> VARIANT

<222> (15)..(15)

<223> Amino acid 15 is "Xaa" wherein "Xaa" = Asp or Gly.

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<400> 30

Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Ser Xaa Ala

1 5 10 15

25

Leu Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys

20 25 30

Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Gln Lys His

30

35 40 45

Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly

50 55 60

35

Lys Ser Phe Ser Arg Ser Asp His Leu Gln Arg His Gln Arg Thr His

65 70 75 80

Thr Gly Glu Lys

<213> Artificial Sequence

<220>

5 <223> Zinc finger domain target sequence.

<220>

<221> misc_feature

<222> (15)..(17)

10 <223> Nucleotides 15-17 are "n" wherein "n" = g, a, t, or c.

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tatatatagg ggaannnata tatata

26

15

<210> 34

<211> 26

<212> DNA

<213> Artificial Sequence

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<220>

<223> Zinc finger domain target sequence.

<220>

25 <221> misc_feature

<222> (15)..(17)

<223> Nucleotides 15-17 are "n" wherein "n" = g, a, t, or c.

<400> 34

30 tatatatagg ggaannntta tatata

26

<210> 35

<211> 26

35 <212> DNA

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<223> Zinc finger domain target sequence.

[illegible]

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0

5

20

25

30

35

<223> Nucleotides 37-39 and 46-51 are "n" wherein "n" = g, a, t, or c.

<400> 37

tttgtatggt ttttcaccgg tatgggtacg ctgatgnnnc tgcaannnnn ngctnnngct 60

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<210> 38

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10 <213> Artificial Sequence

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<223> Partial zinc finger domain oligomer.

15 <220>

<221> misc_feature

<222> (46)..(57)

<223> Nucleotides 46-48 and 52-57 are "n" wherein "n" = g, a, t, or c.

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<210> 39

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<212> DNA

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<220>

30 <223> Partial zinc finger domain oligomer.

<220>

<221> misc_feature

<222> (37)..(51)

35 <223> Nucleotides 37-39 and 46-51 are "n" wherein "n" = g, a, t, or c.

<400> 39

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5      <210>  40
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      <213>  Artificial Sequence

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10     <220>
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      <222>  (48)..(58)
      <223>  Nucleotides 48-50 and 54-58 are "n" wherein "n" = g, a, t, or c.

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      ggcgagaagc cttacaagtgc ccctgaatgc gggaagagct ttagtnnnnag tnnnnn          56

20     <210>  41
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      <223>  Partial zinc finger domain oligomer.

      <220>
      <221>  misc_feature
30     <222>  (28)..(48)
      <223>  Nucleotides 28-30, 37-42 and 46-48 are "n" wherein "n" = g, a, t,
           or c

      <400>  41
35     cttctccccc gtgtgcgtgc gttggtgnnn ttgtaannnn nnactnnnac taaag          55

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<212> DNA
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 <220>
 5 <223> PCR primer.

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 <211> 48
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 <220>
 <223> PCR primer.

 <400> 43
 20 cccggggggtc tcaagctttt acttctcccc cgtgtgcgtg cgttggtg 48

 <210> 44
 25 <211> 10
 <212> DNA
 <213> Beet curly top virus

 <400> 44
 30 ttgggtgctc 10

 <210> 45
 <211> 60
 35 <212> DNA
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 <223> Partial zinc finger domain oligomer.

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<210> 46

<211> 60

<212> DNA

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<220>

<223> Partial zinc finger domain oligomer.

<400> 46

tttgtatggt ttttcacogg tatgggtacg ctgatgacgc tgcaaatcgc tgctggtgct 60

<210> 47

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20 <212> DNA

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<220>

<223> Partial zinc finger domain oligomer.

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<400> 47

ggtgaaaaac catacaaagc tccagagtgc ggcaaacttt tctctacctc tgatcatctt 60

30 <210> 48

<211> 60

<212> DNA

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35 <220>

<223> Partial zinc finger domain oligomer.

<400> 48

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25	<210> 55 <211> 44 <212> DNA	
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 <400> 66
 agtaaggtag gagatgata 19

15 <210> 67
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 <400> 67
 tacgtggcat tgggtgctc 19

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35 <220>
 <221> VARIANT
 <222> (13)..(13)
 <223> Amino acid 13 is "Xaa" wherein "Xaa" = Z1 wherein Z1 = Arg, Gln,
 Thr, Met or Glu

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 <222> (15)..(15)
 <223> Amino acid 15 is "Xaa" wherein "Xaa" = Z2 wherein Z2 = Ser, Asn, Thr, or Asp
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 <221> VARIANT
 <222> (16)..(16)
 <223> Amino acid 16 is "Xaa" wherein "Xaa" = Z3 wherein Z3 = His, Asn, Ser, or Asp
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 <221> VARIANT
 <222> (19)..(19)
 <223> Amino acid 19 is "Xaa" wherein "Xaa" = Z6 wherein Z6 = Arg, Gln, Thr, Tyr, Leu, or Glu
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 Gln His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa Ser Xaa Xaa
 1 5 10 15
 25 Leu Gln Xaa His Gln Arg Thr His Thr Gly Glu Lys
 20 25
 30 <210> 69
 <211> 28
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 35 <220>
 <223> Zinc finger domain.
 <220>
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 <222> (13)..(13)

